

<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1495.01.US</p>	<p>SERIAL NO. 09/778,474</p>
	<p>APPLICANT Nelson et al.</p>	
	<p>FILING DATE February 7, 2001</p>	<p>GROUP 2467</p>

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	3,560,978	02/1971	Himmel et al.				
	3,725,938	04/1973	Black et al.				
	3,742,498	06/1973	Dunn				
	3,846,799	11/1974	Guegen				
	3,950,753	04/1976	Chisholm				
	4,021,813	05/1977	Black et al.				
	4,099,184	07/1978	Rapshys				
	4,107,469	08/1978	Jenkins				
	4,170,766	10/1979	Pridham et al.				
	4,260,994	04/1981	Parker				
	4,290,071	09/1981	Fenwick				
	4,387,378	06/1983	Henderson				
	4,448,155	12/1984	Wu				
	4,577,316	03/1986	Schiff				
	4,599,733	07/1986	Gutleber				
	4,625,308	11/1986	Kim et al.				
	4,631,546	12/1986	Dumas et al.				
	4,642,806	02/1987	Hewitt et al.				
	4,675,863	06/1987	Paneth et al.				
	4,700,197	10/1987	Milne				
	4,817,089	03/1989	Paneth et al.				
	4,841,526	06/1989	Wilson et al.				
	4,862,453	08/1989	West et al.				
	4,866,709	09/1989	West et al.				
	4,912,705	03/1990	Paneth et al.				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,949,395	08/1990	Rydbeck			
	4,954,950	9/4/1990	Freeman et al.			
	5,022,024	06/1991	Paneth et al.			
	5,027,125	06/1991	Tang			
	5,027,348	06/1991	Curry, Jr.			
	5,027,400	06/1991	Baji et al.			
	5,088,149	08/1991	Aubry et al.			
	5,056,709	10/1991	Gilhausen et al.			
	5,068,916	11/1991	Harrison et al.			
	5,101,416	03/1992	Fenton et al.			
	5,103,459	04/1992	Gilhausen et al.			
	5,114,375	05/1992	Wellhausen et al.			
	5,115,309	05/1992	Hang			
	5,117,236	05/1992	Chang et al.			
	5,124,981	06/1992	Golding			
	5,130,983	07/1992	Heffner III			
	5,226,044	07/1993	Gupta et al.			
	5,235,343	08/1993	Audren et al.			
	5,257,283	10/1993	Gilhausen et al.			
	5,267,262	11/1993	Whealy III			
	5,268,900	12/1993	Hluchyj et al.			
	5,280,472	01/1994	Gilhausen et al.			
	5,282,222	01/1994	Fattouche et al.			
	5,293,172	03/1994	Lamberty et al.			
	5,294,939	03/1994	Sanford et al.			
	5,303,240	04/1994	Borras et al.			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,325,394	06/1994	Bruckert			
	5,325,419	06/1994	Connolly et al.			
	5,337,316	08/1994	Weiss et al.			
	5,339,316	08/1994	Diepstraten			
	5,353,332	10/1994	Raith et al.			
	5,355,374	11/1994	Hester et al.			
	5,373,502	12/1994	Turban			
	5,375,124	12/1994	D'Ambrogio, et al.			
	5,388,102	02/1995	Griffith et al.			
	5,394,473	02/1995	Davidson			
	5,412,429	05/1995	Glover			
	5,414,728	05/1995	Zehavi			
	5,422,887	06/1995	Diepstraten et al.			
	5,430,452	07/1995	DuBois			
	5,437,055	07/1995	Wheatley, III			
	5,442,625	08/1995	Gitlin et al.			
	5,446,727	08/1995	Bruckert et al.			
	5,463,629	10/1995	Ko			
	5,471,463	11/1995	Hubert			
	5,479,176	12/1995	Zavren, Jr.			
	5,481,533	01/1996	Honig et al.			
	5,487,180	01/23/1996	Ohtake			
	5,490,136	02/1996	Sereno et al.			
	5,493,569	02/1996	Buchholz et al.			
	5,502,447	03/1996	Kumpfbeck et al.			
	5,511,068	04/1996	Sato			

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	5,537,397	07/1996	Abramson			
	5,537,414	07/16/1996	Takiyasu et al.			
	5,550,828	08/27/1996	Gries et al.			
	5,559,789	09/1996	Nakano et al.			
	5,577,022	11/19/1996	Padovani et al.			
	5,581,575	12/1996	Zehavi et al.			
	5,585,850	12/1996	Schwaller			
	5,586,749	12/1996	Scribano et al.			
	5,590,409	12/1996	Sawahashi et al.			
	5,592,178	01/1997	Chang et al.			
	5,592,468	01/1997	Sato			
	5,592,470	01/1997	Rudrapatna et al.			
	5,592,471	01/1997	Briskman			
	5,598,416	01/1997	Yamada et al.			
	5,598,417	01/1997	Crisler et al.			
	5,604,730	12/1997	Tiedemann Jr.			
	5,606,580	02/1997	Mourot et al. ¹			
	5,617,102	04/1997	Prater			
	5,617,423	04/1997	Ling et al.			
	5,619,492	04/1997	Press et al.			
	5,619,524	04/1997	Ling et al.			
	5,621,752	04/1997	Antonio et al.			
	5,634,199	05/1997	Gerlach et al.			
	5,642,348	06/1997	Barzegar et al.			
	5,642,377	06/1997	Chung et al.			
	5,652,764	07/1997	Kanzaki et al.			

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	5,655,001	08/1997	Cline et al.			
	5,657,326	06/1997	Burns et al.			
	5,657,358	08/1997	Panech et al.			
	5,663,958	09/1997	Ward			
	5,663,990	09/1997	Bolgiano et al.			
	5,673,259	09/1997	Quick, Jr.			
	5,680,142	10/1997	Smith et al.			
	5,684,794	11/1997	Lopez et al.			
	5,687,194	11/1997	Paneth et al.			
	5,689,502	11/1997	Scott			
	5,697,059	12/1997	Carney			
	5,699,364	12/1997	Sato et al.			
	5,708,656	01/1998	Noneman et al.			
	5,712,869	01/1998	Lee et al.			
	5,715,236	02/1998	Gilhousen et al.			
	5,726,981	03/1998	Ylittervo et al.			
	5,734,646	03/1998	I et al.			
	5,739,784	04/1998	Jan et al.			
	5,742,592	04/1998	Scholefield et al.			
	5,745,484	04/1998	Scott			
	5,745,484	04/1998	Scott			
	5,758,288	05/1998	Dunn et al.			
	5,767,807	06/1998	Pritchett			
	5,781,542	07/1998	Tanaka et al.			
	5,781,543	07/1998	Ault et al.			
	5,784,406	07/1998	DeJaco et al.			

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	5,790,549	08/1998	Dent			
	5,790,551	08/1998	Chan			
	5,793,744	08/1998	Kanerva et al.			
	5,802,046	09/1998	Scott			
	5,802,465	09/1998	Hamalainen et al.			
	5,805,994	09/1998	Perrault et al.			
	5,812,131	09/1998	Bertram			
	5,825,807	10/1998	Kumar			
	5,828,659	10/1998	Teder et al.			
	5,828,662	10/1998	Jalali et al.			
	5,838,720	11/17/1998	Morelli			
	5,841,768	11/1998	Ozluturk et al.			
	5,844,894	12/1998	Dent			
	5,845,211	12/1998	Roach			
	5,854,786	12/1998	Henderson et al.			
	5,856,971	01/1999	Gitlin et al.			
	5,859,840	01/1999	Fiedemann, Jr. et al.			
	5,859,879	01/1999	Belgiano et al.			
	5,862,476	01/1999	Hasegawa			
	5,867,527	02/1999	Ziv et al.			
	5,872,786	02/1999	Shobatake			
	5,873,043	02/16/1999	Comer			
	5,881,060	03/1999	Morrow et al.			
	5,881,368	03/1999	Grob et al.			
	5,884,196	03/1999	Lekven et al.			
	5,892,774	04/1999	Zehavi et al.			

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	5,893,035	04/1999	Chen			
	5,894,473	04/1999	Dent			
	5,896,376	04/1999	Alperovich et al.			
	5,898,929	04/1999	Haartsen			
	5,905,473	05/1999	Taenzer			
	5,910,944	06/1999	Callicotte et al.			
	5,910,945	06/1999	Garrison et al.			
	5,914,960	06/1999	Tiedemann, Jr. et al.			
	5,915,216	06/22/1999	Lysejko			
	5,923,650	07/1999	Chen et al.			
	5,926,500	07/1999	Odenwalder			
	5,930,230	07/1999	Odenwalder et al.			
	5,933,781	08/1999	Willenegger et al.			
	5,943,362	08/1999	Saito			
	5,950,131	09/1999	Vilmur			
	5,956,332	09/1999	Rasanen et al.			
	5,959,980	09/1999	Scott			
	5,960,361	09/1999	Chen			
	5,963,559	08/7/2003	Ohki			
	5,966,374	10/1999	Rasanen			
	5,974,036	10/26/1999	Acharya et al.			
	5,982,760	11/1999	Chen			
	5,991,279	11/1999	Haugli et al.			
	5,991,284	11/1999	Willenegger et al.			
	5,991,618	11/23/1999	Hall			
	6,001,800	12/1999	Mehta et al.			

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	6,002,690	12/1999	Takayama et al.			
	6,005,852	12/1999	Kokko et al.			
	6,005,855	12/1999	Zehavi et al.			
	6,009,106	12/1999	Rustad et al.			
	6,011,800	01/2000	Nadgauda et al.			
	6,016,312	01/2000	Storn et al.			
	6,028,868	02/2000	Yeung et al.			
	6,031,827	02/2000	Rikkinen et al.			
	6,034,636	03/2000	Thiel et al.			
	6,037,905	03/2000	Koscica et al.			
	6,038,450	03/14/2000	Brink et al.			
	6,049,535	04/2000	Ozluturk			
	6,049,538	04/2000	Scott			
	6,052,385	04/2000	Kanerva et al.			
	6,058,338	05/2000	Agashe et al.			
	6,064,678	05/2000	Sindhushayana et al.			
	6,069,880	05/1999	Owen et al.			
	6,069,883	05/2000	Bizak et al.			
	6,070,071	05/2000	Chavez et al.			
	6,075,974	06/2000	Saints et al.			
	6,078,572	06/2000	Tanno et al.			
	6,081,536	06/2000	Gorsuch et al.			
	6,088,335	07/2000	I et al.			
	6,094,421	07/2000	Scott			
	6,094,576	07/2000	Häkkinen et al.			
	6,097,733	08/2000	Basu et al.			

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	6,097,972	08/2000	Saints et al.			
	6,100,843	08/2000	Proctor, Jr. et al.			
	6,101,176	08/2000	Honkasalo et al.			
	6,101,179	08/2000	Soliman			
	6,104,708	08/2000	Bergamo			
	6,111,863	08/2000	Rostoker et al.			
	6,112,092	08/2000	Benveniste			
	6,115,370	09/2000	Struhsaker et al.			
	6,118,767	09/2000	Shen et al.			
	6,134,233	10/2000	Kay			
	6,151,332	11/2000	Gorsuch et al.			
	6,157,616	12/2000	Whitehead			
	6,157,619	12/2000	Ozluturk et al.			
	6,161,013	12/2000	Anderson et al.			
	6,163,707	12/2000	Miller			
	6,169,731	01/2001	Stewart et al.			
	6,185,184	02/2001	Mattaway et al.			
	6,185,266	02/2001	Kuchi et al.			
	6,188,678	02/2001	Prescott			
	6,188,903	02/2001	Gardner et al.			
	6,196,362	02/2001	Darcie et al.			
	6,198,723	03/2001	Parruck et al.			
	6,201,966	03/2001	Rinne et al.			
	6,208,871	03/2001	Hall et al.			
	6,212,175	04/2001	Harsch			
	6,212,220	04/2001	Proctor Jr., et al.			

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	6,215,798	04/2001	Cameheim et al.			
	6,219,342	04/2001	Rege			
	6,219,342	04/2001	Rege			
	6,222,828	04/2001	Ohlson et al.			
	6,222,832	04/2001	Proctor, Jr.			
	6,222,873	04/2001	Bang et al.			
	6,226,527	05/2001	Dalsgaard et al.			
	6,233,439	05/2001	Jalali			
	6,236,647	05/2001	Amalfitano			
	6,236,674	05/22/2001	Morelli et al.			
	6,243,372	06/2001	Petch et al.			
	6,246,673	06/2001	Tiedmann et al.			
	6,246,715	06/2001	Park et al.			
	6,256,509	07/2001	Tanaka et al.			
	6,259,683	07/2001	Sekine et al.			
	6,262,980	07/2001	Leung et al.			
	6,263,013	07/2001	Hendrickson			
	6,269,075	07/2001	Tran			
	6,269,088	07/2001	Masui et al.			
	6,272,168	08/2001	Lomp et al.			
	6,272,354	08/2001	Saari			
	6,275,478	08/2001	Tiedemann Jr.			
	6,278,701	08/2001	Ayyagari et al.			
	6,285,665	09/2001	Chuah			
	6,292,474	09/2001	Ali et al.			
	6,301,291	10/2001	Rouphael et al.			

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	6,304,215	10/2001	Proctor, Jr. et al.			
	6,307,840	10/2001	Wheatley III et al.			
	6,310,859	10/2001	Morita et al.			
	6,314,300	11/2001	Nakashima et al.			
	6,317,092	11/2001	De Schweinitz et al.			
	6,320,851	11/2001	Kim et al.			
	6,322,008	12/2001	Giallorenzi et al.			
	6,337,668	01/2002	Ito et al.			
	6,353,412	03/2002	Soliman			
	6,353,645	03/2002	Solve et al.			
	6,356,555	03/2002	Rakib et al.			
	6,366,570	04/2002	Bhagalia			
	6,366,786	04/2002	Norman et al.			
	6,370,117	04/2002	Koraitim et al.			
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	6,373,834	04/2002	Lundh et al.			
	6,377,548	04/2002	Chuah			
	6,377,809	04/2002	Razafifar et al.			
	6,388,997	05/2002	Scott			
	6,388,999	05/2002	Gorsuch et al.			
	6,389,000	05/2002	Jou			
	6,396,804	05/2002	Odenwalder			
	6,396,823	05/2002	Park et al.			
	6,418,148	07/2002	Kumar et al.			
	6,424,645	07/23/2002	Kawabata et al. ³			
	6,426,960	07/2002	Antonio			

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	<p align="center">APPLICANT Nelson et al.</p>	
	<p>FILING DATE February 7, 2001</p>	<p>GROUP 2467</p>

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,452,911	09/2002	Seo			
	6,452,913	09/2002	Proctor, Jr.			
	6,453,176	09/2002	Lopes et al.			
	6,456,608	09/2002	Lomp			
	6,466,800	10/2002	Sydon et al.			
	6,469,991	10/2002	Chuah			
	6,473,623	10/2002	Benveniste			
	6,483,816	11/2002	Tsunebara et al.			
	6,490,461	12/2002	Muller			
	6,498,785	12/2002	Derryberry et al.			
	6,498,790	12/2002	Shaheen et al.			
	6,498,939	12/2002	Thomas			
	6,501,787	12/2002	Odenwalder et al.			
	6,504,830	01/2003	Östberg et al.			
	6,512,751	01/2003	Struhsaker et al.			
	6,519,452	02/2003	Agostino et al.			
	6,519,651	02/2003	Dillon			
	6,522,639	02/2003	Kitade et al.			
	6,526,039	02/2003	Dahman et al.			
	6,526,064	02/2003	Bousquet ²			
	6,526,281	02/2003	Gorsuch et al.			
	6,532,226	03/2003	Lehtinent et al.			
	6,532,365	03/2003	Anderson et al.			
	6,542,481	04/2003	Foore et al.			
	6,545,986	04/2003	Stellakis			
	6,545,994	04/2003	Nelson et al.			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,546,252	04/2003	Jetzek et al.			
	6,567,391	05/2003	Moon			
	6,567,416	05/2003	Chuah			
	6,567,670	05/2003	Petersson			
	6,570,865	05/2003	Masui et al.			
	6,571,296	05/2003	Dillon			
	6,574,211	06/2003	Padovani et al.			
	6,587,446	07/2003	Sarkar et al.			
	6,597,913	07/2003	Natarajan			
	6,611,231	08/07/2003	Crilly et al.			
	6,621,808	09/2003	Sadri			
	6,633,554	10/2003	Dalal			
	6,647,000	11/2003	Persson et al.			
	6,687,509	02/2004	Schmutz et al.			
	6,690,652	02/2004	Sadri			
	6,690,938	02/2004	Chin			
	6,697,642	02/2004	Thomas			
	6,707,804	03/2004	Proctor, Jr.			
	6,717,916	04/2004	Ali et al.			
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	6,724,743	04/2004	Pigeonnat			
	6,731,954	05/2004	Katz			
	6,735,188	05/2004	Becker et al.			
	6,760,596	07/2004	Fiorini et al.			
	6,768,727	07/2004	Sourour et al.			

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	6,775,558	08/2004	Ranta et al.			
	6,782,277	08/2004	Chen et al.			
	6,785,247	08/2004	Lee			
	6,788,661	09/2004	Ylitalo et al.			
	6,795,416	09/2004	Han et al.			
	6,804,219	10/2004	Koo et al.			
	6,807,221	10/2004	Kim et al.			
	6,826,159	11/2004	Nagatani et al.			
	6,831,910	12/2004	Moon et al.			
	6,868,075	03/2005	Narvinger et al.			
	6,925,068	08/2005	Stanwood et al.			
	6,931,252	08/2005	Aroudaki			
	6,934,319	08/2005	Subramanian			
	6,940,845	09/2005	Benveniste			
	6,954,444	10/2005	Ji et al.			
	6,956,840	10/2005	Proctor, Jr.			
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	7,136,377	11/2006	Tweedly et al.			
	7,218,623	05/2007	Proctor, Jr.			
	7,221,664	05/2007	Proctor, Jr.			
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	2001/0033558	10/2001	Matsuki			

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	2001/0036200	11/2001	Nelson et al.			
	2001/0038674	11/2001	Trans			
	2001/0039191	11/2001	Maierhofer			
	2002/0009061	01/2002	Willenegger			
	2002/0012332	05/2002	Tiedmann et al.			
	2002/0015441	04/2002	Ralston et al.			
	2002/0080024	06/2002	Nelson et al.			
	2002/0097700	07/25/2002	Alastalo			
	2002/0141478	10/2002	Ozluturk et al.			
	2003/0060224	03/2003	Nelson et al.			
	2003/0095517	05/22/2003	Proctor, Jr.			
	2003/0123401	07/2003	Dean			
	2004/0005078	01/08/2004	Tillotson			
	2004/0009785	01/2004	Nelson et al.			
	2004/0047328	03/2004	Proctor et al.			
	2004/0073803	04/15/2004	Keramane			
	2004/0160910	08/2004	Gorsuch et al.			
	2004/0180696	09/2004	Foore et al.			
	2005/0208961	09/2005	Willenegger			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2812575	09/1979	DE				
	0 443 061	08/1991	EP				
	0 526 106	02/1993	EP				
	0 682 423	11/1995	EP				

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		0 682 426	11/1995	EP				
		0 719 062	06/1996	EP				
		0 720 309	07/1996	EP				
		0 773 636	05/1997	EP				
		0 910 176	04/1999	EP				
		0 475 698	03/1997	EP				
		1 018 809	12/2000	EP				
		0 808 074	11/1997	EP				
		0 907 282	04/1999	EP			X**	
		2 326 524	12/1998	GB			X**	
		59-050603	03/1984	JP			X**	
		02-177643	07/1990	JP			X**	
/ST/	*	03-049324	03/1991	JP			X**	
		07-067164	03/1995	JP				
		07-095151	04/1995	JP				
		07-264098	10/1995	JP			X**	
		08-065273	03/1996	JP			X**	
		09-055693	02/1997	JP			X**	
		566045	12/2003	TW				
		200536325	11/2005	TW				
		95/08900	03/1995	WO				
		96/08934	03/1996	WO				
		96/19050	06/1996	WO				
		96/27994	12/1996	WO				
		96/37081	11/1996	WO				

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		97/23073	06/1997	WO				
		97/26726	07/1997	WO				
		97/32412	09/1997	WO				
		97/46041	04/1997	WO				
		97/46044	12/1997	WO				
		99/14869	03/1999	WO				
		99/31811	06/1999	WO				
		99/52306	10/1999	WO				
		99/63682	12/1999	WO				
		00/72464	11/2000	WO				

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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
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		Azad et al., Multirate Spread Spectrum Direct Sequence CDMA Techniques, 1994, The Institute of Electrical Engineers.
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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	CHELOUAH, A., ET AL., "Angular Diversity Based on Beam Switching of Circular Arrays for Hyperlan Terminals," <i>Electronics Letters</i> , Vol. 36, No. 5, pp. 387-388, (March 2, 2000)
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	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995.
	Chih-Lin I et al., Variable Spreading Gain CDMA with Adaptive Control for True Packet Switching Wireless Network, 1995, Pages 725-730.
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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Draft Text for "95C" Physical Layer (Revision 4), Part 1, Document #531-981-20814-95C, Part 1 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Mau/WG3-TG1/531-98120814-95c,%20part%201.pdf).
	Draft Text for "95C" Physical Layer (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Mau/WG3-TG1/531-98120814-95c,%20part%202.pdf, 1998).
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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Heine, Gunnar, "The Air-Interface of GSM", in GSM Networks: Protocols, Terminology, and Implementation, (MA: Artech House, Inc.), pp. 89-100 (1999)
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	Knisely, Douglas, N. Telecommunications Industry Association Subcommittee TR-45.5 - <i>Wideband Spread Spectrum Digital Technologies Standards</i> . Banff, Alberta. February 24, 1997 (TR45.5/97.02.24)21.
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	<p>APPLICANT Nelson et al.</p>	
	<p>FILING DATE February 7, 2001</p>	<p>GROUP 2467</p>

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